BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Improvements to roads and drains at Herohalli main and cross roads and surrounding areas in Ward No. 02

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
1	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P No-27,I No-5.33)								
	For Drain Desilt	Sqm							
	Harohalli								
	Main Rd								
			2	75.00	0.90		135.00		
							135.00		
	consider 50% for R & R						67.50		
							67.50	111.30	7512.75
	Basic Rate Rs.=	105.00							
	Add 6% A.W Rs. =	6.30							
	Total Rate Rs. =	**111.30**							
2	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1 Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (P No-143, I No-19.1)								
	For RCC Drain	Cum							
	Harohalli								
	KEB Layout Rd		1	260.00	1.10	1.10	314.60		
	3rd cross		2	70.00	1.10	1.10	169.40		
	4th cross		2	75.00	1.10	1.10	181.50		
	Cross Rd, From Eshwara temple		1	95.00	1.10	1.10	114.95		
	Circle to Javarappa house		1	0.00	1.50	1.10	0.00		
	Near Hoysala Habitat		1	60.00	1.20	1.10	79.20		
	Muniyappa house to temple		2	75.00	1.00	1.10	165.00		
			1	10.00	1.10	1.10	12.10		
	For RCC Culvert		4	5.50	1.50	1.10	36.30		
	Near Hoysala Habitat		1	17.80	1.50	1.10	29.37		
	Near Sobha Apartment		1	19.00	1.50	1.10	31.35		
	For Drain Desilt								
	Harohalli								
	Main Rd								
			2	75.00	0.60	0.50	45.00		
							1178.77	215.28	253765.61
	Basic Rate Rs.=	130.00							
	Add 6% A.W Rs =	7.80							
	Sub Total =	137.80							
	8Km Lead, Loading and Unloading =(2*1.28*8)+57	77.48							
	Total Rate Rs. =	**215.28**							
3	KSRRB M2100-10 Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P No-222,I No-27.18)								
	For Drain	Cum							
	Harohalli								
	KEB Layout Rd								
	3rd cross		1	260.00	1.10	0.15	42.90		
	4th cross		2	70.00	1.10	0.15	23.10		
	Cross Rd, From Eshwara temple		2	75.00	1.10	0.15	24.75		
	Circle to Javarappa house		1	95.00	1.10	0.15	15.68		
	Near Hoysala Habitat		1	0.00	1.50	0.15	0.00		
	Muniyappa house to temple		1	60.00	1.20	0.15	10.80		
			2	75.00	1.00	0.15	22.50		
	For RCC Culvert		1	10.00	1.10	0.15	1.65		
	Near Hoysala Habitat		4	5.50	1.50	0.15	4.95		
			1	17.80	1.50	0.15	4.01		

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	Near Sobha Apartment								
	For Concrete Road		1	19 00	1 50	0 15	4 28		
	Harohalli								
	3rd cross								
	4th cross		1	70 00	4 00	0 150	42 000		
			1	75 00	4.40	0 150	49 500		
							246.11	5421 90	**1334356.70**
	Basic Rate Rs.=	5115 00							
	Add 6% A.W Rs. =	306 90							
	Total Rate Rs. =	**5421.90**							
4	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and sown size granite metal course aggregates at 0 69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification. (P No.271, I No.37 59 2 of PW, P&IWTD S R 2018-19)								
	For RCC Drain	Cum							
	Bottom slab								
	Harohalli								
	KEB Layout Rd								
	3rd cross		1	260 00	0 90	0 15	35 10		
	4th cross		2	70 00	0 90	0 15	18 90		
	Cross Rd, From Eshwara temple		2	75 00	0 90	0 15	20 25		
	Circle to Javarappa house		1	95 00	0 90	0 15	12 83		
	Near Hoysala Habitat		1	0 00	1 20	0 15	0 00		
	Muniyappa house to temple		1	60 00	1 20	0 15	10 80		
			2	75 00	0 80	0 15	18 00		
	side walls		1	10 00	0 90	0 15	1 35		
	Harohalli								
	KEB Layout Rd								
	3rd cross		2	260 00	0 15	0 65	50 70		
	4th cross		4	70 00	0 15	0 65	27 30		
	Cross Rd, From Eshwara temple		4	75 00	0 15	0 65	29 25		
	Circle to Javarappa house		2	95 00	0 15	0 65	18 53		
	Near Hoysala Habitat		2	0 00	0 15	0 75	0 00		
	Muniyappa house to temple		2	60 00	0 15	0 65	11 70		
			4	75 00	0 15	0 65	29 25		
			2	10 00	0 15	0 65	1 95		
	For RCC Culvert						**285.90**		
	Raft								
	Near Hoysala Habitat		4	5 50	1 30	0 20	5 72		
	Near Sobha Apartment		1	17 80	1 30	0 20	4 63		
	side walls		1	19 00	1 30	0 20	4 94		
	Near Hoysala Habitat		8	5 50	0 20	0 60	5 28		
	Near Sobha Apartment		2	17 80	0 20	0 60	4 27		
			2	19 00	0 20	0 60	4 56		
							29.40		
	Basic Rate Rs.=	6670 00			Net Qty		**315.30**	7070.20	**2229234.06**
	Add 6% A.W Rs. =	400 20							
	Total Rate Rs. =	**7070.20**							
5	KSRRB - M2300-14 Providing TMT steel reinforcement for R C C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.MORTH Specification No. 1600 & 2200 for TMT bars Fe 500 (P No 239, I No 29 29.2 of PW, P&IWTD S R 2018-19)								
	Considering steel For Drain @ 70 kg / cum	Tonne		285 90	0 070	--	20 01		
	Considering steel For Culvert @ 100 kg / cum			29 40	0 100	--	2 94		

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
							22.95	73992 24	1698343.88
	Basic Rate Rs.=	69804 00							
	Add 6% A.W Rs. =	4188.24							
	Total Rate Rs. =	**73992.24**							
6	Providing and fixing RCC precast cover slab of 100mm thick for drain in cement concrete 1 1 5 3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	For drain cover slab	Sqm							
	Harohalli								
	KEB Layout Rd								
	3rd cross		1	260 00	0 75	--	195 00		
	4th cross		2	70 00	0 75	--	105 00		
	Cross Rd, From Eshwara temple		2	75 00	0 75	--	112 50		
	Circle to Javarappa house		1	95 00	0 75	--	71 25		
	Near Hoysala Habitat		1	0 00	1 20	--	0 00		
	Muniyappa house to temple		1	60 00	0 90	--	54 00		
			2	75 00	0 60	--	90 00		
			1	10 00	0 75	--	7 50		
	From item no. 01						67 50		
							702.75	2337 00	**1642326.75**
7	Providing and fixing RCC precast cover slab of 250mm thick made out of CC 1 2 4 and jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge (Data Rate)								
	For Culvert Slabs	Sqm							
	Near Hoysala Habitat		1	17 80	1 20	--	21 36		
	Near Sobha Apartment		1	19 00	1 20	--	22 80		
			4	5 50	1 20	--	26 40		
							70.56	5416 00	**382294.08**
8	Earth work excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches, 1 5m and above in width, in ordinary soil, exceeding 1 5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with all lead upto 50m after breaking of clods complete as per specifications (P No 6, I No 2 1) PWD SR 2018-19								
	For Pipeline	Cum							
	Harohalli								
	KEB Layout Rd		1	260 00	0 50	0 600	78 00		
							78.00	263 94	**20587.32**
	Basic Rate Rs.=	249 00							
	Add 6% A.W Rs. =	14 94							
	Total Rate Rs. =	**263.94**							
9	KSRB 2.6 : Providing and filling sand in foundation to required depth for sub soil treatment including watering ramming with all lead and lift complete as per specifications. specification No. KBS 2.10 2 (P No.7, I No 2 13) PWD SR 2018-19								
	For Pipeline	Cum							
	Harohalli								
	KEB Layout Rd		1	260 00	0 45	0 200	23 40		
							23.40	2183 60	**51096.24**
	Basic Rate Rs.=	2060 00							
	Add 6% A.W Rs. =	123 60							
	Total Rate Rs. =	**2183.60**							
10	KSRB13-9 3 : Providing and fixing to wall, ceiling and floor high density polyethylene pipes 6 00 kgf/sq cm working pressure 63mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No KBS 13 2 15 2 / 13 9 (Page no 96, Item No 13 73 2) PWD SR 2018-19								
	For Pipeline	Rmtr							
	Harohalli								
	KEB Layout Rd		1	260 00			260 00		
							260.00	394 32	**102523.20**

Sl No	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount
				m	m	m		in Rs	in Rs
	Basic Rate Rs.=	372.00							
	Add 6% A.W Rs. =	22.32							
	Total Rate Rs. =	**394.32**							
11	KSRB 2-4 : Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5 m including cost of all labour complete as per specifications. (Page No.7, Item No. 2.11) PWD SR 2018-19								
		Cum							
	From Pipe line excavation						78.00		
	Deduct from sand filling						-23.40		
							54.60	128.26	**7003.00**
	Basic Rate Rs.=	121.00							
	Add 6% A.W Rs. =	7.26							
	Total Rate Rs. =	**128.26**							
12	KSRRB M200-24 Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202 with 8km lead= (I No-18.47,P No-140)								
	For Concrete Road	Cum							
	Harohalli								
	3rd cross		1	70.00	4.00	0.200	56.00		
	4th cross		1	75.00	4.40	0.200	66.00		
							122.00	973.42	**118757.24**
	Basic Rate Rs.=	899.00							
	Add 6% A.W Rs. =	53.94							
	Sub Total =	952.94							
	8Km Lead, Loading and Unloading =(2*1.28*8)	20.48							
	Total Rate Rs. =	**973.42**							
13	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS 383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008 mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing) & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications. (P No-176,I No-22.6.1)								
	For Concrete Road	Cum							
	Harohalli								
	3rd cross		1	70.00	4.00	0.150	42.00		
	4th cross		1	75.00	4.40	0.150	49.50		
							91.50	5210.96	**476802.84**
	Basic Rate Rs.=	4916.00							
	Add 6% A.W Rs. =	294.96							
	Total Rate Rs. =	**5210.96**							
14	Vaccum De- writing with vaccum pump and suction mat and compaction with skin flater clubbed with floatiog disc including cost of generator, HOM of machinery Sereed Vibratory Power Floaterblade and diisc etc with all lead and lift. (Page No 176 Item No 22.7)								
	For Concrete Road	Sqm							
	Harohalli								
	3rd cross		1	70.00	4.00		280.00		
	4th cross		1	75.00	4.40		330.00		
							610.00	72.08	**43968.80**
	Basic Rate Rs.=	68.00							
	Add 6% A.W Rs. =	4.08							
	Total Rate Rs. =	**72.08**							

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
								Sub Total 1 Rs	8368572.47
	Add GST @ 12%								1004228.70
	Add KRIDL @ 4%								334742.90
	DPR & PMC Charges including GST								192000.00
	Miscellaneous & Rounding off							Sub Total 2 Rs	9899544.06
									455.94
	CERTIFICATE:							Total Rs	9900000.00

1 The work spot has been inspected by me and the work is found to be necessary
2 The estimate is prepared as per PW, P&IWTD S R Bangalore circle for the year 2018-2019
3 The Provisions made in the estimate are quite necessary and adequate
4 The area comes with in the BBMP limits.

Assistant Engineer
Ward 02
BBMP

Assistant Executive Engineer
Yelahanka Sub Division
BBMP

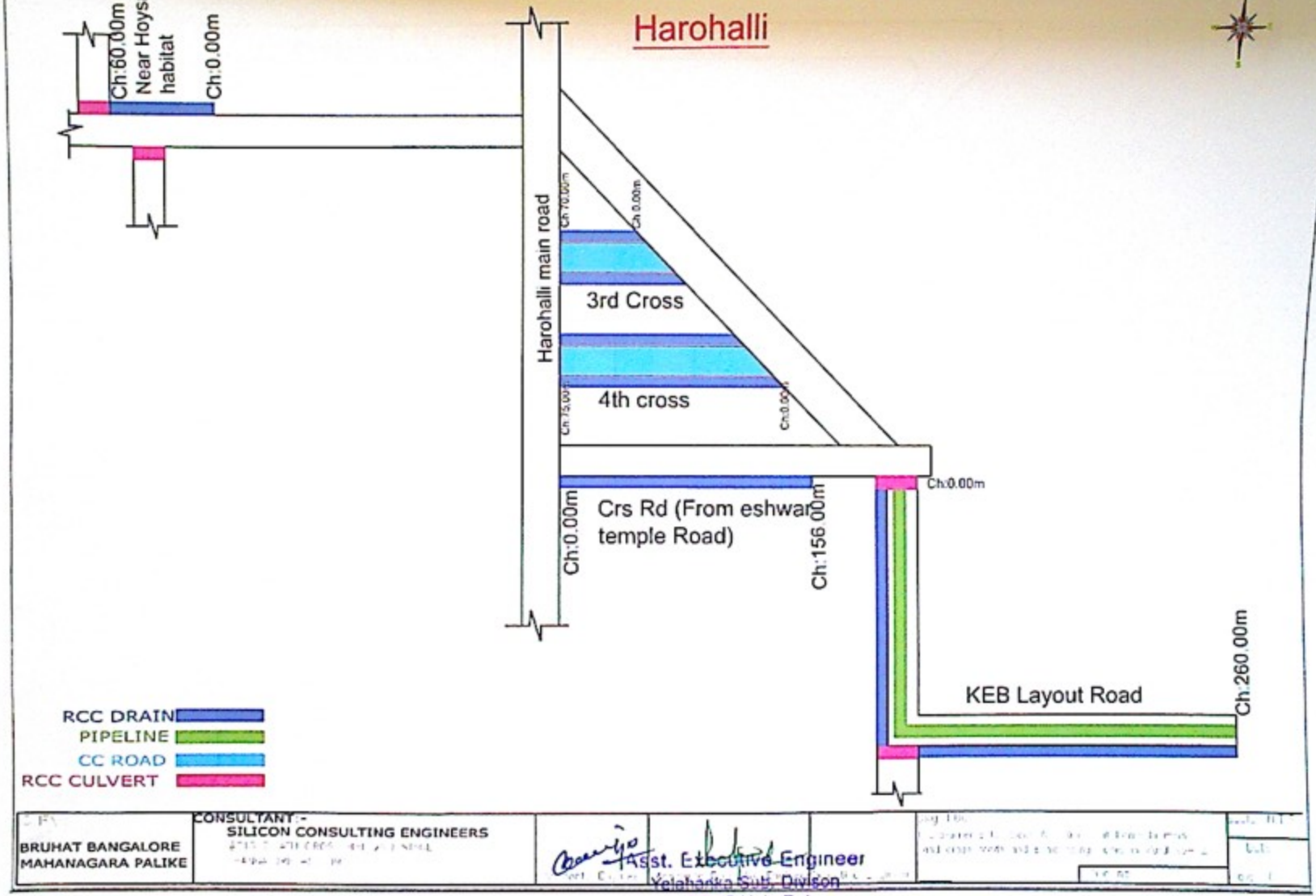
Executive Engineer
Yelahanka Division
BBMP

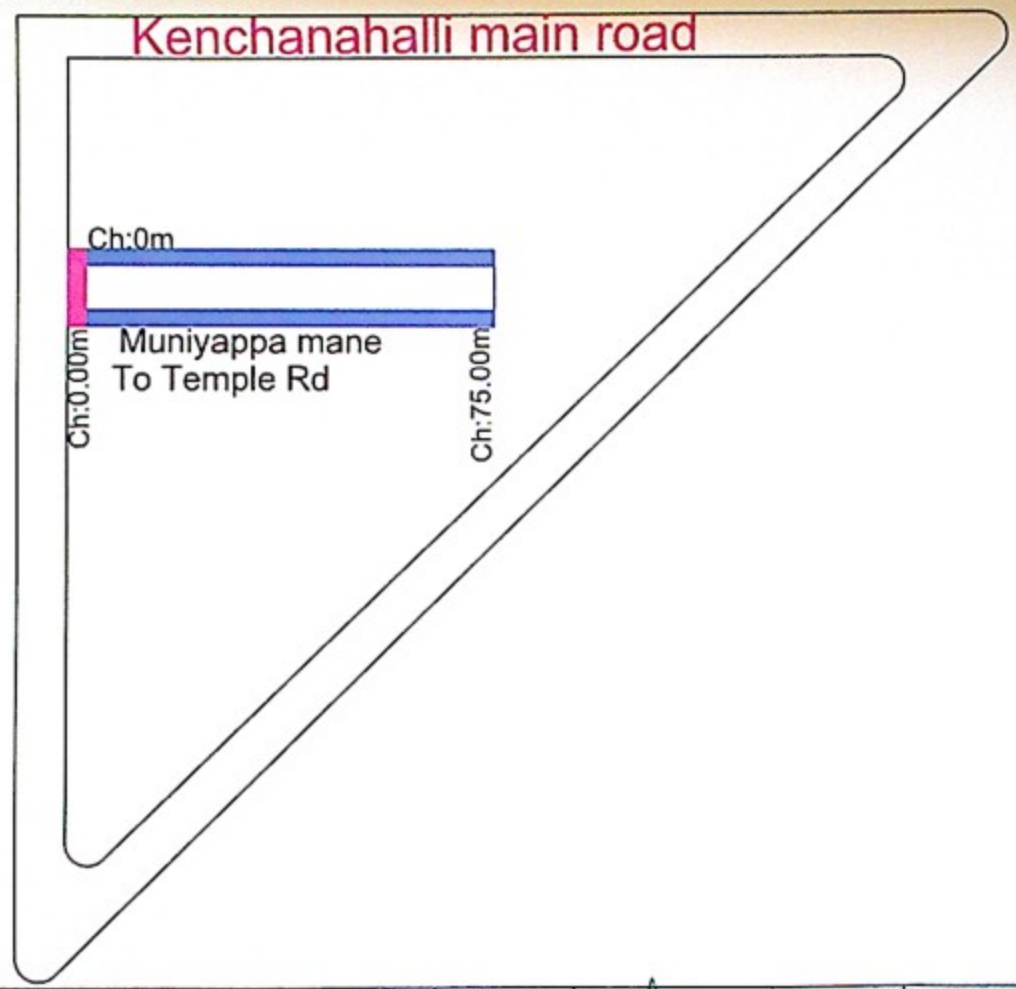
Administrative Sanction for Rs. 99.00 Lakhs
Ninty Nine Lakhs only
is accorded under head P-3727 2018-19
Chief minister Nava Nagara-
thana grants
Regd to e[illegible] Subject
to co[illegible]
No EE/YNK/AS/34/2019-20 28/10/2019

Executive [illegible]

Technical Sanction
Accorded For RS 99 lakhs only
Head of A/C P3727
CER NO :12.2 Dt:28.10.2019

[TA] [CE (YNK)]


Harohalli
Ch:60.00m
Near Hoysala habitat
Ch:0.00m
Harohalli main road
3rd Cross
4th cross
Crs Rd (From eshwar temple Road)
Ch:0.00m
Ch:156.00m
Ch:0.00m
KEB Layout Road
Ch:260.00m
RCC DRAIN
PIPELINE
CC ROAD
RCC CULVERT
BRUHAT BANGALORE MAHANAGARA PALIKE
CONSULTANT :-
SILICON CONSULTING ENGINEERS
Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore



BRUHAT BANGALORE MAHANAGARA PALIKE

CONSULTANT:-
SILICON CONSULTING ENGINEERS

Asst. Executive Engineer
Yelahanka Sub-Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore